

## VALIDATION AND LECTOTYPIIFICATION OF *PACKERA CRAWFORDII* (ASTERACEAE)

**ROBERT R. KOWAL**

Department of Botany  
University of Wisconsin-Madison  
Madison, Wisconsin 53706-1381

**ALISON M. MAHONEY**

Department of Biological Sciences  
Minnesota State University-Mankato  
Mankato, Minnesota 56001

**ALAN WEAKLEY**

UNC Herbarium, North Carolina Botanical Garden  
University of North Carolina at Chapel Hill  
Chapel Hill, North Carolina 27599-3280

**DWAYNE ESTES**

Botanical Research Institute of Texas  
1700 University Drive  
Fort Worth, Texas 76107

### ABSTRACT

*Senecio crawfordii* has generally been regarded as a synonym in recent decades, as phylogenetic studies resulted in most eastern North American *Senecio* being transferred to *Packera*. Recent research, however, indicates the taxon should be recognized at species rank. Until a fuller accounting of its distinctiveness is made, its validation in *Packera* is urgently needed for conservation assessments and use in impending floras, thus the combination is made here as ***Packera crawfordii* (Britton) A.M. Mahoney & R.R. Kowal, comb. nov.** A specimen at NY is designated as the lectotype.

In 1901, N.L. Britton described *Senecio crawfordii* Britton, a wetland species of eastern North America. Although accepted as a species during the first half of the 20th century (Fernald 1950), the taxon has since been treated as an infraspecific taxon of the species now known as *Packera paupercula* (Michx.) Á. Löve & D. Löve (Barkley 1962), or Britton's binomial has been reduced to synonymy under that species (Radford et al. 1968; Gleason & Cronquist 1991). However, the taxon's morphological, ecological, reproductive, and cytological distinctiveness argue for its recognition at species rank within *Packera* (Kowal & Mahoney, in press).

***Packera crawfordii* (Britton) A.M. Mahoney & R.R. Kowal, comb. nov.** Basionym: *Senecio crawfordii* Britton, *Torreyia* 1: 21. 1901. *Senecio balsamitae* Muhl. ex Willd. var. *crawfordii* (Britton) Greenm., *Rhodora* 10: 69. 1908. *Senecio pauperculus* var. *crawfordii* (Britton) T.M. Barkley, *Trans. Kansas Acad. Sci.* 65: 357. 1962. *Senecio pauperculus* subsp. *crawfordii* (Britton) G.W. Douglas & G. Ruyle-Douglas, *Canad. J. Bot.* 56: 1710. 1978. **LECTOTYPE** (designated here): USA. Pennsylvania. Bucks Co.: Tullytown, 29 May 1899, N.L. Britton s.n. (NY).

*Packera crawfordii* has a very scattered distribution from New Jersey and eastern Pennsylvania west to northern Indiana and northern Illinois, south to southeastern North Carolina, western North Carolina, west-central Georgia, and western Tennessee. It occurs mainly in mucky wetland soils and appears to be very rare range-wide, based on documented occurrences. A more

detailed paper is in preparation (Kowal & Mahoney, in press), but validation of the name is needed for its imminent use in the *Flora of Tennessee* (Tennessee Flora Committee, in press) and the *Flora of the Southern and Mid-Atlantic States* (Weakley, in press) and to encourage conservation assessment of this rare and specialized species.

#### LITERATURE CITED

- Barkley, T.M. 1962. A revision of *Senecio aureus* Linn. and allied species. Trans. Kansas Acad. Sci. 65: 318–408.
- Britton, N.L. 1901. A new *Senecio* from Pennsylvania. Torreyia 1: 21.
- Fernald, M.L. 1950. Gray's Manual of Botany (ed. 8). American Book Co., New York.
- Gleason, H.A. and A. Cronquist. 1991. Manual of Vascular Plants of Northeastern United States and Adjacent Canada (ed. 8). The New York Botanical Garden, Bronx.
- Kowal, R.R. and A.H. Mahoney. In press. *Packera crawfordii* (Asteraceae, Senecioneae): The transfer from *Senecio* of a neglected species of southeastern North America. Brittonia.
- Radford, A.E., H.E. Ahles, and C.R. Bell. 1968. Manual of the Vascular Flora of the Carolinas. Univ. of North Carolina Press, Chapel Hill.
- Tennessee Flora Committee. In press. Guide to the Vascular Plants of Tennessee (editors: E.W. Chester, B.E. Wofford, J. Shaw, D. Estes, and D.H. Webb). Univ. of Tennessee Press, Knoxville.
- Weakley, A.S. In press. Flora of the Southern and Mid-Atlantic States. 2015 edition. UNC Herbarium, North Carolina Botanical Garden, Chapel Hill.